

WHAT IS CLAIMED IS:

1. A DTMF data generating apparatus which is used in a communication system code-compressing and transmitting a voice signal to an opposite-side communication apparatus and which generates DTMF data for reporting a DTMF signal being intermingled with said voice signal to said opposite-side communication apparatus, said DTMF data generating apparatus comprising:

a DTMF code information generating unit for detecting the DTMF code of a DTMF signal to be reported to said opposite-side communication apparatus and generating DTMF code information on the basis of this result of detection,

a time information generating unit for detecting the output duration time of said DTMF signal to be reported to said opposite-side communication apparatus and generating time information on the basis of this result of detection, and

a DTMF data generating unit for generating DTMF data including the destination information of said opposite-side communication apparatus, said DTMF code information generated by said DTMF code information generating unit and said time information generated by said time information generating unit.

2. A DTMF data generating apparatus according to claim 1, wherein:

said DTMF data have a destination information storing area for storing said destination information and a DTMF content information storing area for storing said DTMF code information and said time information.

3. A DTMF data generating apparatus according to claim 1, transmitting DTMF data generated by said DTMF data generating apparatus in an ATM cell form to said opposite-side communication apparatus.

4. A DTMF data generating method which is used in a communication system transmitting a voice signal to an opposite-side communication apparatus and

generates DTMF data for reporting a DTMF signal being intermingled with said voice signal to said opposite-side communication apparatus, said method comprising the steps of:

detecting the DTMF code of a DTMF signal to be reported to said opposite-side communication apparatus and generating DTMF code information on the basis of this result of detection,

detecting an output duration time of said DTMF signal to be reported to said opposite-side communication apparatus and generating time information on the basis of this result of detection, and

generating DTMF data including the destination information of said opposite-side communication apparatus, said DTMF code information and said time information.

5. A DTMF data structure for being used in a communication system code-compressing and transmitting a voice signal to an opposite-side communication apparatus and for reporting a DTMF signal being intermingled with said voice signal to said opposite-side communication apparatus, said structure comprising:

a destination information storing area for storing destination information indicating the destination of said opposite-side communication apparatus to be notified of said DTMF signal and

a DTMF content information storing area for storing DTMF code information indicating the code of a DTMF signal to be reported to said opposite-side communication apparatus and time information indicating the output duration time of a DTMF signal to be reported to said opposite-side communication apparatus.